

ABSTRACT

In the present invention, a recombination of gene groups of nemadectin aglycon biosynthesis is performed for obtaining C-13 hydroxynemadectin, to which sugar groups can be attached, and a production strain which produces C-13 hydroxynemadectin is produced. Further, C-13 glycosynemadectin producing strain is prepared by introducing aveBI-BVIII genes involving glycosidation of avermectin and biosynthesis of oleandrose. As described, C-13 hydroxynemadectin and C-13 glycosidated nemadectin can be obtained effectively by using the producing strain prepared by means of the molecular genetic technology, and improvement in the biological activity thereof can be expected.

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